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MINERAL INDUSTRY SURVEYS

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CRUSHED STONE AND SAND AND GRAVEL IN THE FOURTH QUARTER OF 1996

An estimated 345.9 million metric tons of *crushed stone* were produced and shipped for consumption in the United States in the fourth quarter of 1996, an increase of 11.8% compared with the same period of 1995. The estimated annual production of *crushed stone* shipped for consumption in 1996 was 1.3 billion metric tons, a 5.6% increase compared with 1995. The 1996 total annual production of crushed stone was the highest production ever recorded in the United States.

The estimated output of *construction sand and gravel* produced for consumption in the fourth quarter of 1996 was 236.8 million metric tons, an increase of 3.5% compared with the same period of 1995. The estimated annual production of *construction sand and gravel* shipped for consumption in 1996 was 963.0 million metric tons, a 5.8% increase compared with 1995. The 1996 total annual production of *construction sand and gravel* was also the highest production ever recorded in the United States.

The above estimates are based on information reported to the U.S. Geological Survey quarterly sample survey by the crushed stone and sand and gravel producers. The increases in production of both crushed stone and construction sand and gravel are mostly due to continued high level activity in private and commercial construction work during the fourth quarter of 1996. It should be noted that in the fourth quarter of 1996 there was also an increase in portland cement consumption compared with the same period of 1995.

The USGS quarterly survey on domestic production of crushed stone and construction sand and gravel has become a significant indicator of construction activity at the national as well as State level. Recognizing its significance, in January 1997 the Federal Reserve Board announced that it is now using

the USGS Quarterly Mineral Industry Surveys on crushed stone and sand and gravel data as the basis to derive improved monthly indices of Industrial Production and Capacity Utilization (G17), specifically in the Manufacturing and Mining, Stone and Earth Minerals (14), Crushed Stone (142), and Sand and Gravel (144) Industry Groups.

The quarterly survey is a sample survey that generates production for consumption estimates by quarters for each State, except Alaska and Hawaii, and each geographic division, based on information reported voluntarily by a limited number of producing companies. Occasionally, the number of companies reporting in an area varies from quarter to quarter, or previously reported data by some companies are revised. As a result of such changes in the size or the composition of the statistical sample, the estimated quantities for prior quarters are recalculated. The latest release of the Quarterly Mineral Industry Surveys contains the most recent estimated totals and percentage changes and supersedes previously published similar information.

The production for consumption estimates for crushed stone and sand and gravel, are generated independently for each State and geographic division which are treated as separate statistical sample areas. Therefore, some differences may exist between the total for a division and the sum of State totals that are part of the same geographic division.

The U.S. *crushed stone* production for consumption in the fourth quarter of 1996 increased in all geographic divisions except New England and the Mountain. Major increases were recorded in the Middle Atlantic (28.1%), Pacific (15.2) and South Atlantic (14.5%).

The leading geographic divisions for the total amount of *crushed stone* sold or used in the fourth quarter of 1996 were

the South Atlantic with 82.0 million metric tons, or 23.7% of the U.S. total, followed by the East North Central with 68.5 million metric tons or 19.8%, and the Middle Atlantic division with 42.5 million metric tons or 12.3% of the total.

The estimated *construction sand and gravel* sold or used in the fourth quarter of 1996 increased in all geographic divisions except the West South Central, and the Mountain. Major increases were recorded in the New England (15.7%), followed by Middle Atlantic (14.5%), and East North central (6.2%).

The leading geographic divisions for the total amount of *construction sand and gravel* sold or used in the fourth quarter of 1996 were the East North Central with 54.2 million metric tons, or 22.9% of the U.S. total, followed by the Pacific with 41.7 million metric tons, or 17.6%, and the Mountain with 39.8 million metric tons, or 16.8% of the total. The estimated totals by quarters for the geographic divisions do not include Alaska and Hawaii.

Despite the increases recorded at the national level, production for consumption of *crushed stone* declined in the fourth quarter of 1996 in Connecticut, Idaho, Main, Minnesota, Nevada, New Hampshire, New Mexico, Oklahoma, and South Dakota. The five leading States in the production for consumption of *crushed stone* in the fourth quarter of 1996 were Pennsylvania, Texas, Illinois, Missouri, and Florida. Their combined total production for consumption represented 28.9% of the U.S. total.

Production for consumption of *construction sand and gravel* declined in 16 of the 45 estimated States, with major decreases in terms of percentages being recorded for Wyoming (-35.4), Arkansas (-20.4), North Carolina (-18.0), Iowa (-17.3), and West Virginia (-15.9). The five leading States in the production for consumption of *sand and gravel* in the fourth quarter of 1996 were California, Texas, Michigan, Ohio, and Illinois. Their combined total production for consumption represented 34.4% of the U.S. total.

A total of 387 companies representing *crushed stone* and *construction sand and gravel* producers reported production for consumption information to the fourth quarter sample survey. The large participation of the producing companies in this survey is reflected by the very good percentage coverage obtained for most geographic divisions and States. The percentage coverage indicates how much of the total estimated production for consumption for a State or a geographic division was actually reported by companies participating in this survey and was used to generate the estimated totals for that particular area.

The percent changes between the estimated production for consumption for the current quarter and the same quarter of the prior year included in this report, are important indicators of the production/consumption trends occurring in a particular area of the country.

TABLE 1

CRUSHED STONE SOLD OR USED BY PRODUCERS IN THE UNITED STATES, BY DIVISION 1/

(Thousand metric tons and thousand dollars)

				1995 ar	d 1996			
_			1995		Percent	Number of		
			Quantity	Value	cover-			
Region/Division	1st Qtr.	2nd Qtr.	3rd Qtr.	4th Qtr.	Total 2	Total 2/	age	comp. 3/
Northeast:								
New England	1,900	9,200	9,600	7,500	28,100	198,000	53	17
Middle Atlantic	19,800	42,200	46,200	33,200	141,000	828,000	57	40
Midwest:								
East North Central	29,400	65,300	78,200	62,000	235,000	1,070,000	68	49
West North Central	25,000	37,200	46,700	35,900	145,000	726,000	51	43
South:								
South Atlantic	61,900	81,400	84,300	71,700	299,000	1,800,000	81	56
East South Central	27,600	37,500	41,800	36,000	143,000	698,000	67	20
West South Central	30,600	36,200	38,700	34,700	140,000	631,000	60	31
West:								
Mountain	5,800	9,100	10,800	9,200	35,000	198,000	53	21
Pacific 5/	15,600	20,900	24,500	19,200	80,200	441,000	40	25
Total 2/	217,600	339,100	380,800	309,300	6/1,260,000	6/6,750,000	XX	XX

XX Not applicable.

TABLE 1--Continued

CRUSHED STONE SOLD OR USED BY PRODUCERS IN THE UNITED STATES, BY DIVISION 1/

(Thousand metric tons and thousand dollars)

						1996				
		Per-		Per-		Per-		Per-		
	Quantity	cent	Quantity	cent	Quantity	cent	Quantity	cent		Value
Region/Division	1st Qtr.	change 4/	2nd Qtr.	change 4/	3rd Qtr.	change 4/	4th Qtr.	change 4/	Total 2/	Total 2/
Northeast:										
New England	900	-49.5	7,400	-19.7	8,800	-8.3	7,200	-3.4	24,300	174,000
Middle Atlantic	17,600	-11.3	41,700	-1.1	50,500	9.3	42,500	28.1	152,000	899,000
Midwest:										
East North Central	26,500	-10.0	66,100	1.2	88,900	13.6	68,500	10.5	250,000	1,150,000
West North Central	22,600	-9.4	40,400	8.6	48,400	3.6	39,600	10.4	151,000	759,000
South:										
South Atlantic	58,800	-5.0	88,500	8.7	88,000	4.5	82,000	14.5	317,000	1,920,000
East South Central	26,800	-2.6	42,400	13.0	47,000	12.4	39,800	10.7	156,000	710,000
West South Central	33,600	9.9	35,900	-0.7	39,300	1.4	35,200	1.3	144,000	657,000
West:										
Mountain	6,000	3.2	9,900	8.3	10,700	-1.5	8,800	-4.0	35,400	198,000
Pacific 5/	16,700	7.0	22,000	5.3	24,900	1.6	22,100	15.2	85,700	476,000
Total 2/	209,600	-3.7	354,300	4.5	406,300	6.7	345,900	11.8	6/1,330,000	6/7,110,000

^{3/} Number of companies reporting for the quarterly survey.

^{1/} Quarterly totals shown are estimates based on a sample survey. Estimated quantities for prior quarters have been recalculated.

^{2/} Data may not add to totals shown because of independent rounding, and differences between projected totals by States and by divisions.

^{4/} All percentage changes are calculated using unrounded totals.

^{5/} Does not include Alaska and Hawaii.

^{6/} Includes Alaska, Hawaii, and "Other" totals; see Table 3, footnote 6.

TABLE 2
SAND AND GRAVEL SOLD OR USED BY PRODUCERS IN THE UNITED STATES, BY DIVISION 1/
(Thousand metric tons and thousand dollars)

·	·					·	1995 and 1996		
		1995							
			Quantity	Value	cover-	of			
Region/Division	1st Qtr.	2nd Qtr.	3rd Qtr.	4th Qtr.	Total 2/	Total 2/	age	comp. 3/	
Northeast:									
New England	4,600	10,700	13,300	9,300	37,700	199,000	16	23	
Middle Atlantic	7,700	18,200	19,700	12,800	58,400	308,000	26	27	
Midwest:									
East North Central	20,200	54,500	66,200	51,100	192,000	717,000	43	52	
West North Central	10,700	24,900	37,800	23,500	97,000	315,000	22	38	
South:									
South Atlantic	14,500	18,700	17,800	16,900	68,000	292,000	49	43	
East South Central	7,100	10,800	12,500	9,900	40,400	171,000	36	21	
West South Central	19,200	23,400	25,200	23,900	91,800	395,000	35	16	
West:									
Mountain	32,300	40,900	43,000	40,600	157,000	678,000	38	32	
Pacific 5/	26,200	41,000	46,200	40,900	154,000	782,000	47	27	
Total 2/	142,700	243,100	281,800	228,900	6/910,000	6/3,910,000	XX	XX	

XX Not applicable.

TABLE 2--Continued
SAND AND GRAVEL SOLD OR USED BY PRODUCERS IN THE UNITED STATES, BY DIVISION 1/
(Thousand metric tons and thousand dollars)

					199	6				
		Per-		Per- Per-				Per-		
	Quantity	cent	Quantity	cent	Quantity	cent	Quantity	cent		Value
Region/Division	1st Qtr.	change 4/	2nd Qtr.	change 4/	3rd Qtr.	change 4/	4th Qtr.	change 4/	Total 2/	Total 2/
Northeast:										
New England	4,800	4.8	11,400	7.4	14,500	9.1	10,700	15.7	41,400	232,000
Middle Atlantic	6,900	-10.7	15,900	-12.6	19,200	-2.7	14,700	14.5	56,600	305,000
Midwest:										
East North Central	18,300	-9.7	53,900	-1.2	71,300	7.8	54,200	6.2	198,000	745,000
West North Central	11,200	4.5	31,200	25.4	40,600	7.3	24,900	6.0	108,000	347,000
South:										
South Atlantic	14,400	-0.6	19,800	5.9	20,100	13.0	17,800	5.1	72,100	313,000
East South Central	7,700	7.0	12,900	18.8	13,100	4.5	10,500	6.0	44,100	185,000
West South Central	22,900	19.3	27,600	17.9	24,800	-1.6	22,500	-6.1	97,800	432,000
West:										
Mountain	33,300	3.3	44,300	8.4	44,300	3.0	39,800	-2.0	162,000	710,000
Pacific 5/	29,800	13.6	45,700	11.5	52,100	12.8	41,700	2.0	169,000	862,000
Total 2/	149,300	4.7	262,700	8.1	300,000	6.5	236,800	3.5	6/963,000	6/4,190,000

^{3/} Number of companies reporting for the quarterly survey.

^{1/} Quarterly totals shown are estimates based on a sample survey. Estimated quantities for prior quarters have been recalculated.

^{2/} Data may not add to totals shown because of independent rounding, and differences between projected totals by States and by divisions.

^{4/} All percent changes are calculated using unrounded totals.

^{5/} Does not include Alaska and Hawaii.

^{6/} Includes Alaska and Hawaii.

TABLE 3 CRUSHED STONE SOLD OR USED BY PRODUCERS IN THE UNITED STATES, BY STATE 1/ (Thousand metric tons and thousand dollars)

							1995 a	nd 1996
			1995	5			Percent	Number
_			Quantity			Value	cover-	of
State	1st Qtr.	2nd Qtr.	3rd Qtr.	4th Qtr.	Total 2/	Total 2/	age	comp. 3/
Alabama	7,300	9,000	9,300	8,000	33,600	174,000	85	13
Alaska 5/ 6/					3,320	20,400		
Arizona 7/					5,520	32,600		
Arkansas	5,400	6,600	7,300	6,200	25,500	169,000	58	10
California 6/	7,700	10,900	14,200	10,900	43,700	268,000	45	12
Colorado	1,500	2,000	3,100	2,400	9,000	58,500	68	6
Connecticut 6/	400	1,900	2,100	1,600	6,070	45,500	39	4
Delaware 5/								
Florida	18,500	17,200	16,200	16,000	68,000	350,000	62	10
Georgia	12,900	16,400	17,000	14,300	60,600	373,000	93	9
Hawaii 5/ 6/					7,450	73,500		
Idaho 6/7/	500	700	1,000	1,000	3,210	14,000	40	3
Illinois	7,700	15,900	20,900	17,000	61,400	335,000	62	11
Indiana 6/	7,500	12,700	15,600	13,300	49,200	234,000	77	14
Iowa	4,700	10,400	11,800	8,400	35,300	210,000	48	8
Kansas	4,100	5,100	6,200	5,000	20,400	95,800	63	11
Kentucky 6/	10,900	13,100	16,000	14,700	54,700	230,000	53	8
Louisiana 6/7/					2,540	26,700		
Maine	300	800	1,100	900	3,110	16,100	48	4
Maryland	4,400	6,900	7,200	5,700	24,200	158,000	86	9
Massachusetts	600	4,000	3,600	2,900	11,100	97,400	77	5
Michigan	2,600	11,700	12,900	10,300	37,500	127,000	77	10
Minnesota 6/	500	3,100	4,500	3,100	11,300	47,400	63	6
Mississippi 6/7/					1,990	8,010		
Missouri 6/	14,500	15,100	19,500	16,600	65,700	305,000	43	17
Montana 6/7/		´	·		2,370	9,920		
Nebraska	1,200	1,700	2,200	1,500	6,590	41,800	87	6
Nevada	500	600	600	700	2,410	21,400	31	3
New Hampshire 6/	100	600	800	600	2,150	9,150	86	4
New Jersey	3,400	6,100	6,200	5,300	21,000	132,000	55	7
New Mexico	700	800	1,200	900	3,660	18,800	34	4
New York	3,800	11,100	14,900	9,700	39,500	204,000	60	10
North Carolina	10,800	15,400	17,000	14,200	57,300	384,000	96	13
North Dakota 5/		,	·	·	,	´		
Ohio	8,600	17,800	19,700	14,800	60,900	265,000	68	14
Oklahoma 6/	6,500	8,100	8,800	7,700	31,100	125,000	76	11
Oregon	4,500	5,700	5,800	4,700	20,700	95,700	38	11
Pennsylvania	12,700	25,100	25,000	18,100	80,900	492,000	56	22
Rhode Island 7/		,	·	·	1,250	9,140		
South Carolina	4,700	6,000	5,800	5,400	22,000	132,000	97	9
South Dakota 6/	500	1,500	2,000	1,400	5,420	25,700	65	5
Tennessee	8,900	14,600	16,000	13,100	52,600	286,000	71	7
Texas	18,300	20,800	22,000	20,100	81,100	310,000	54	13
Utah	800	1,100	1,200	1,000	4,140	14,800	84	5
Vermont 7/					4,420	20,700		
Virginia	9,700	15,900	16,600	13,200	55,400	326,000	74	14
Washington 6/	3,900	4,600	4,000	3,300	15,800	76,800	26	4
West Virginia 6/	1,900	3,400	4,000	2,500	11,800	75,000	53	7
Wisconsin	3,100	7,100	9,400	6,400	26,000	108,000	47	9
Wyoming	500	1,600	1,500	1,100	4,670	27,500	85	4
Other		1,000	1,300	1,100	6,620	69,300		
Total	XX	XX	XX	XX	1,260,000	6,750,000	XX	XX
10111	/1/1	/1/1	/1/1	11/1	1,200,000	3,750,000	/1/1	/1/1

XX Not applicable.

^{1/} Quarterly totals shown are estimates based on a sample survey. Estimated quantities for prior quarters have been recalculated.

^{2/} Data may not add to totals shown because of independent rounding, and differences between projected totals by States.

^{3/} Number of companies reporting for the quarterly survey. 4/ All percentage changes are calculated using unrounded totals.

TABLE 3--Continued
CRUSHED STONE SOLD OR USED BY PRODUCERS IN THE UNITED STATES, BY STATE 1/
(Thousand metric tons and thousand dollars)

					199					
		Per-		Per-		Per-		Per-		
	Quantity	cent	Quantity	cent	Quantity	cent	Quantity	cent		Value
State	1st Qtr.	change 4/	2nd Qtr.	change 4/	3rd Qtr.	change 4/	4th Qtr.	change 4/	Total 2/	Total 2/
Alabama	7,800	6.6	10,700	19.2	10,700	15.5	9,700	20.9	38,900	204,000
Alaska 5/ 6/									3,500	21,500
Arizona 7/									5,250	31,200
Arkansas	5,500	2.9	7,000	4.8	7,300	1.1	6,500	4.8	26,400	177,000
California 6/	8,900	16.8	11,800	8.0	14,100	-1.0	11,900	8.6	46,700	289,000
Colorado	1,300	-9.3	3,100	51.6	3,000	-1.7	2,500	3.2	9,950	65,100
Connecticut 6/	100	-71.5	1,800	-4.2	2,300	10.1	1,100	-35.4	5,310	40,100
Delaware 5/										
Florida	18,000	-3.2	18,000	4.3	17,700	9.3	17,700	10.5	71,300	371,000
Georgia	12,600	-2.0	18,600	13.5	17,500	2.9	15,600	9.0	64,300	399,000
Hawaii 5/ 6/									7,700	76,200
Idaho 6/ 7/	300	-31.8	300	-54.0	800	-18.4	700	-35.6	2,120	9,340
Illinois	7,100	-7.5	16,600	4.9	23,500	12.7	19,200	13.0	66,500	365,000
Indiana 6/	7,200	-4.7	13,400	5.2	19,400	23.8	14,600	10.3	54,600	262,000
Iowa	4,400	-6.6	10,000	-4.0	11,900	0.6	9,100	8.5	35,400	212,000
Kansas	4,200	4.4	6,300	22.0	6,400	4.3	6,400	28.3	23,400	111,000
Kentucky 6/	10,100	-7.3	14,900	13.5	19,400	20.7	14,900	1.3	59,200	252,000
Louisiana 6/7/									2,650	27,900
Maine	300	4.8	900	8.2	1,100	5.1	800	-9.1	3,160	16,400
Maryland	3,500	-21.0	7,300	6.3	7,900	9.8	7,700	34.5	26,400	174,000
Massachusetts	200	-64.5	2,700	-32.3	3,000	-15.5	3,100	6.3	9,020	79,400
Michigan	2,600	2.0	11,200	-4.3	13,700	6.3	11,400	10.1	38,900	132,000
Minnesota 6/	500	-6.9	3,400	8.9	5,300	16.0	2,900	-4.6	12,100	51,500
Mississippi 6/7/									2,300	9,300
Missouri 6/	12,300	-15.4	17,200	14.3	19,400	-0.7	18,100	9.2	67,000	315,000
Montana 6/7/			1.000				1.700		2,290	9,720
Nebraska	1,000	-14.6	1,900	12.3	2,000	-7.2	1,700	15.2	6,680	42,800
Nevada	500	1.2	600	-7.6	700	17.0	600	-13.3	2,370	21,200
New Hampshire 6/	90	-39.3	500	-1.6	800	-4.6	600	-8.6	1,990	8,570
New Jersey	2,200	-34.2	5,700	-7.2	6,500	4.8	6,800	28.2	21,200	134,000
New Mexico	600	-7.9	1,200	45.3	900	-29.5	700	-28.5	3,350	17,200
New York	3,400	-11.9	11,300	2.4	17,000	14.6	11,900	21.9	43,600	227,000
North Carolina	9,900	-7.6	16,700	8.9	16,300	-4.2	15,600	10.0	58,600	395,000
North Dakota 5/ Ohio	7.000		10.000				16 200			200.000
	7,000	-18.4	18,000	1.5	22,300	13.2	16,200	9.5	63,600	280,000
Oklahoma 6/	6,700	3.3	7,600	-6.0	8,000	-9.3	7,200	-6.6	29,500	119,000
Oregon	4,500	-0.8	6,400	12.3	5,900	1.1	5,200	10.5	21,900	102,000
Pennsylvania	12,100	-5.1	24,700	-1.3	26,800	7.0	23,800	31.7	87,400	538,000
Rhode Island 7/							 5 000		1,100	8,090
South Carolina	4,800	3.1	6,600	9.8	6,500	11.9	5,800	6.1	23,800	143,000
South Dakota 6/	500	-8.0	1,300	-15.5	2,600	31.8	1,300	-9.2	5,630	27,000
Tennessee	8,100	-9.7	15,700	7.8	16,800	4.4	14,600 21,200	11.7	55,100	245,000
Texas	20,900	14.3	20,600	-0.8	23,700	7.8		5.8	86,400	333,000
Utah	900	12.1	800	-23.6	1,100	-6.1	1,100	8.0	4,000	14,400
Vermont 7/	8 000	 Q /	 16 700	 5 1	 17 000	 7.0	 16 300	23.0	4,560 59,700	21,400
Virginia Washington 6/	8,900	-8.4 12.1	16,700	5.1	17,900	7.9	16,300	23.0		352,000 84,500
Washington 6/ West Virginia 6/	3,400	-13.1	3,700	-18.4	4,700	18.5	5,400	61.5	17,200	
Wisconsin	2,100	14.0	4,000	18.2	4,200	5.4	3,500	42.3	14,000	89,300
Wyoming	2,400	-22.0	6,500	-7.9	10,000	6.3	6,900	7.5	25,800	108,000
Other	700	45.3	1,600	-5.5 	1,700	15.0	1,100	3.5	5,050 7,000	29,800
Total	XX	XX	 VV		 VV	 VV	 VV	 VV		73,500
5/ State not included			XX	XX	XX	XX	XX	XX	1,330,000	7,110,000

^{5/} State not included in quarterly survey.

^{6/} To avoid disclosing proprietary data, certain State totals do not include all kinds of stone produced within the State; the portion not shown has been included with "Other."

^{7/} Due to a low number of reporting companies, no production estimates by quarters were generated.

TABLE 4 SAND AND GRAVEL SOLD OR USED BY PRODUCERS IN THE UNITED STATES, BY STATE $1/\!\!$ (Thousand metric tons and thousand dollars)

			100	.~			1995 ar	
		0	199	95			Percent	Number
State	1st Qtr.	Quanti 2nd Qtr.	3rd Qtr.	4th Qtr.	Total 2/	Value Total 2/	cover-	of comp. 3/
Alabama	2,500	3,000	3,300	3,100	11,900	49,400	age 39	8 comp. 3/
Alaska 5/	2,300	5,000	3,300	5,100	13,700	48,500		
Arizona Arizona	9,200	10,600	10,200	10,100	40,100	201,000	66	8
Arkansas	2,300	2,900	3,400	3,100	11,600	48,300	56	4
California	15,900	26,400	28,900	27,200	98,400	542,000	55	14
Colorado	5,000	8,100	11,500	9,500	34,100	141,000	38	7
Connecticut	1,000	1,900	2,100	1,400	6,410	37,500	20	5
Delaware	700	700	600	700	2,680	8,740	39	3
	4,800	4,900	4,700	4,900	19,300		57	9
Florida	1,300	1,600	1,600	1,300	5,780	69,300	30	6
Georgia	1,300		1,000	1,300		23,100		
Hawaii 5/	1.500	 5 000	2.700	2.000	405	4,030		4
Idaho	1,500 3,800	5,000 10,700	3,700 12,200	2,900 9,400	13,200 36,100	43,500	19 43	10
Illinois						147,000		
Indiana	3,300	6,800	8,500 5,700	6,400	24,900	93,900	54	10
Iowa	1,200	3,900	5,700	3,400	14,300	57,000	23	7
Kansas	1,200	3,200	4,200	2,400	11,100	29,400	27	6
Kentucky	900	2,400	3,400	2,000	8,710	31,700	24	3
Louisiana	2,500	3,300	2,900	2,600	11,300	50,200	55	5
Maine	600	2,100	2,000	1,800	6,420	26,900	12	4
Maryland	1,600	2,900	2,800	2,400	9,700	61,700	43	7
Massachusetts	1,300	3,600	4,400	2,500	11,700	67,500	15	7
Michigan	4,300	15,600	18,700	14,900	53,500	178,000	44	10
Minnesota	3,200	8,400	12,300	7,900	31,900	99,400	24	11
Mississippi	2,100	3,100	3,600	2,900	11,800	53,000	44	6
Missouri	1,500	1,600	3,300	2,500	8,840	32,400	43	5
Montana 6/					8,870	34,900		
Nebraska	1,300	3,800	5,700	3,000	13,700	47,100	19	6
Nevada	5,200	5,900	5,600	5,800	22,500	110,000	43	4
New Hampshire	1,000	1,700	2,500	2,000	7,190	34,300	25	4
New Jersey	2,600	4,200	4,000	3,200	14,000	80,300	25	5
New Mexico	2,400	2,800	2,700	2,500	10,400	50,700	41	3
New York	3,200	8,800	9,400	5,900	27,300	134,000	20	11
North Carolina	2,100	2,500	2,200	3,300	10,100	50,100	34	5
North Dakota 6/					8,420	23,900		
Ohio	5,200	12,200	15,900	12,000	45,300	196,000	45	17
Oklahoma	1,600	1,900	2,300	2,000	7,800	25,100	38	6
Oregon	2,900	4,500	6,600	4,200	18,200	85,000	27	4
Pennsylvania	1,900	5,300	6,100	3,700	17,100	93,100	37	12
Rhode Island 6/					2,790	21,500		
South Carolina	1,900	2,700	2,500	1,800	8,880	29,000	44	6
South Dakota	800	2,400	3,700	1,800	8,730	26,200	17	5
Tennessee	1,400	2,300	2,500	1,800	8,020	36,700	33	6
Texas	12,900	15,100	16,500	16,600	61,100	271,000	27	8
Utah	5,200	4,900	6,800	6,900	23,800	80,200	14	3
Vermont	400	800	1,300	800	3,220	11,000	13	3
Virginia	2,000	2,800	2,700	2,300	9,710	42,300	63	8
Washington	7,800	9,900	11,300	8,700	37,700	155,000	36	9
West Virginia	200	500	600	400	1,800	7,650	100	4
Wisconsin	3,500	9,300	11,000	8,400	32,200	102,000	33	12
Wyoming	900	1,100	900	1,000	3,860	17,500	21	3
Total	XX	XX	XX	XX	910,000	3,910,000	XX	XX

XX Not applicable.

^{1/} Quarterly totals shown are estimates based on a sample survey. Estimated quantities for prior quarters have been recalculated. 2/ Data may not add to totals shown because of independent rounding, and differences between projected totals by States.

^{3/} Number of companies reporting for the quarterly survey.

TABLE 4--Continued SAND AND GRAVEL SOLD OR USED BY PRODUCERS IN THE UNITED STATES, BY STATE 1/(Thousand metric tons and thousand dollars)

					199	96				
		Per-		Per-		Per-		Per-		
	Quantity	cent	Quantity	cent	Quantity	cent	Quantity	cent		Value
State	1st Qtr.	change 4/	2nd Qtr.	change 4/	3rd Qtr.	change 4/	4th Qtr.	change 4/	Total 2/	Total 2/
Alabama	3,100	28.3	4,000	31.8	3,800	15.7	3,400	10.6	14,400	60,500
Alaska 5/									13,900	50,000
Arizona	9,800	6.8	11,100	4.4	10,400	2.8	9,700	-4.0	41,100	207,000
Arkansas	2,500	9.0	2,900	2.4	2,900	-14.8	2,400	-20.4	10,700	45,100
California	18,900	18.6	29,500	11.8	33,000	14.0	27,100	-0.3	108,000	602,000
Colorado	5,400	8.7	10,600	31.8	11,500	-0.5	8,600	-9.7	36,100	150,000
Connecticut	800	-19.9	2,200	13.3	2,600	25.9	1,800	25.6	7,380	43,600
Delaware	500	-20.0	1,100	52.1	1,100	82.9	900	34.6	3,660	12,100
Florida	4,800	0.0	5,400	8.8	5,100	9.2	4,900	1.1	20,200	72,800
Georgia	1,400	7.2	1,900	18.5	1,800	14.7	1,600	18.0	6,630	26,900
Hawaii 5/									400	4,000
Idaho	1,400	-10.1	3,600	-28.3	4,500	21.8	5,100	73.7	14,600	48,900
Illinois	3,300	-12.7	10,500	-2.5	12,300	1.3	9,900	4.6	36,000	147,000
Indiana	2,900	-12.7	7,400	8.2	9,700	14.1	6,500	1.9	26,400	100,000
Iowa	1,100	-9.7	4,500	14.9	6,400	12.9	2,800	-17.3	14,900	60,400
Kansas	2,000	60.5	5,500	73.2	4,200	0.4	3,200	30.9	15,000	40,400
Kentucky	1,000	8.4	2,000	-13.9	2,200	-37.3	1,800	-8.5	7,010	25,700
Louisiana	2,800	8.9	3,300	0.2	2,900	0.7	2,800	6.6	11,700	52,200
Maine	700	20.2	2,000	-5.4	2,600	27.0	1,600	-10.1	6,790	28,500
Maryland	1,700	2.1	2,600	-9.7	3,300	18.9	2,600	10.2	10,200	65,400
Massachusetts	2,200	73.3	3,900	10.2	4,900	11.0	4,100	63.2	15,000	87,200
Michigan	4,200	-3.2	13,900	-11.1	21,200	13.4	15,400	3.6	54,700	186,000
Minnesota	3,600	9.9	8,400	-0.4	12,500	1.9	8,600	7.7	33,000	104,000
Mississippi	2,200	0.3	3,800	22.4	4,000	11.8	3,000	3.1	13,000	59,300
Missouri	1,400	-3.2	3,100	91.6	3,600	10.6	2,500	-0.3	10,600	39,200
Montana 6/									8,210	32,800
Nebraska	900	-32.4	3,800	0.2	6,300	10.5	3,400	13.7	14,300	49,300
Nevada	5,500	6.9	5,400	-7.6	4,900	-12.9	5,200	-10.2	21,100	103,000
New Hampshire	600	-39.7	1,600	-4.6	2,300	-10.6	1,700	-15.4	6,130	29,400
New Jersey	1,700	-34.5	3,900	-8.2	3,200	-20.5	4,000	25.5	12,700	73,900
New Mexico	2,600	9.5	2,900	1.7	2,800	3.9	2,700	8.2	11,000	53,800
New York	3,300	3.9	8,300	-5.7	10,800	14.6	7,300	24.1	29,700	147,000
North Carolina	2,000	-3.4	2,800	9.7	2,900	29.5	2,700	-18.0	10,300	51,600
North Dakota 6/	2,000		2,000		2,700		2,700		8,500	24,200
Ohio	4,700	-10.6	12,700	3.8	16,400	3.2	13,400	11.6	47,100	205,000
Oklahoma	1,700	10.6	2,400	24.5	2,100	-10.2	1,900	-3.1	8,140	26,400
Oregon	2,800	-3.2	4,600	4.3	6,300	-4.9	5,300	24.4	19,000	89,300
	1,900	-2.4	4,200	-21.3	5,600	-9.3	3,700	-0.2	15,300	84,400
Pennsylvania Rhode Island 6/	1,900	-2.4	4,200	-21.3	J,000 	-9.3 	3,700	-0.2	3,000	23,300
	2,100	8.3	2,900	5.1	2,700	8.5	2,300	31.6	9,950	32,800
South Carolina	500	-34.1	2,600	6.5		20.5	2,000	8.7		29,100
South Dakota					4,500				9,530	
Tennessee	1,000	-24.8	2,700	16.1	2,900	14.3	2,100	14.7	8,680	39,900
Texas	16,600	28.5	19,700	30.4	17,300	4.8	15,700	-5.2	69,300	308,000
Utah	3,200	-39.8	8,700	76.7	10,600	55.4	7,800	13.7	30,200	103,000
Vermont	1 000	52.4	1,700	125.4	2,000	57.0	1,500	82.6	5,770	19,900
Virginia	1,900	-4.9	2,900	5.0	2,900	8.4	2,600	10.2	10,200	44,900
Washington	8,000	2.7	11,200	12.4	13,000	15.7	9,100	4.7	41,300	171,000
West Virginia	200	-10.2	500	-8.5	500	-10.1	400	-15.9	1,600	6,890
Wisconsin	3,200	-10.0	9,500	2.9	11,600	5.1	9,300	9.9	33,500	107,000
Wyoming	500	-45.0	900	-24.0	500	-45.4	600	-35.4	2,450	11,300
Total	XX	XX	XX	XX	XX	XX	XX	XX	963,000	4,190,000

^{4/} All percentage changes are calculated using unrounded totals.
5/ State not included in quarterly survey.

^{6/} Due to a low number of reporting companies, no production estimates by quarters were generated.